



Launch Mission Execution Forecast

Mission: Atlas V USSF-8

Issued: 19 Jan 2022 / 0800L (1300Z)

Valid: 21 Jan 2022 / DURING WINDOW



Forecast Discussion: High pressure will migrate into the western Atlantic today and tomorrow, allowing temperatures to moderate as winds turn southerly. A cold front is forecast to approach Friday, though models generally agree that it will remain to the north of the area through the launch window. At this time, the deepest moisture and best convergence along the front is not expected to reach central Florida until late in the afternoon. Meanwhile, forecast models continue to indicate an area of disturbed weather developing late Friday, resulting in scattered showers and perhaps even a thunderstorm into early Saturday morning. Gusty north winds are expected to develop on the low's backside, drawing in somewhat drier air for Saturday's launch attempt; however, there is still a concern for either a Cumulus Cloud or Thick Cloud Layer rule violation as low-level moisture is expected to linger into the afternoon.

Launch Day	Probability of Violating Weather Constraints						
	40%	Primary Concerns: Cumulus Cloud Rule, Thick Cloud Layer Rule					
	Weather Conditions					Additional Risk Criteria	
	Weather/Visibility:	None / 7 mi.	Type	Coverage	Base (ft)	Tops (ft)	Solar Activity: Low
	Temp/Humidity:	73°F / 68%	Cumulus	Scattered	2,500	8,000	
Ground Winds (230'):	140° 5 - 9 knots	Cirrostratus	Broken	18,000	22,000		
24-Hour Delay	Probability of Violating Weather Constraints						
	30%	Primary Concerns: Thick Cloud Layer Rule, Cumulus Cloud Rule					
	Weather Conditions					Additional Risk Criteria	
	Weather/Visibility:	None / 7 mi.	Type	Coverage	Base (ft)	Tops (ft)	Solar Activity: Low
	Temp/Humidity:	64°F / 62%	Cumulus	Broken	2,500	8,000	
Ground Winds (230'):	360° 18 - 24 knots	Altostratus	Broken	12,000	16,000		
<i>Note: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear and solar activity.</i>							
Next Forecast Will Be Issued		20 Jan 2022					